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24131	7590	02/26/2010	EXAMINER	
LERNER GREENBERG STEMER LLP			CAI, WAYNE HUU	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## ADVISORY ACTION

### *Response to Arguments*

1. Applicant's arguments filed February 8, 2010 have been fully considered but they are not persuasive.

The Applicant argues that Chang's process cannot be performed with encoded/compressed speech signals because the compressed speech is not a signal in the sense of a digitized waveform like the one used in Chang et al. The Examiner does not dispute with the Applicant whether or not the encoded/compressed speech is a signal in the form of a digitized waveform. Rather, it appears to the Examiner that there is a difference in opinion as to how to interpret claim language, especially, the limitation "uplink data in compressed state being modified for echo reduction using the results of the analysis of the downlink data and of the uplink data."

The Examiner broadly and reasonably interprets the above mentioned limitation as to use the results of the analysis of the downlink data and of the uplink data to change and/or modify for echo reduction. The end result from modification for echo reduction produces or generates an uplink data in compressed state. In other words, the uplink data in compressed state is the end result or output (of course, after encoded) that **is performed or generated from** using the results of the analysis of the downlink data and of the uplink data to modify for echo reduction.

In Chang et al, the echo free  $d(n)$  is fed into the voice encoder 125 in order to be compressed. The output or the end result of the voice encoder 125 is the uplink data in

compressed state, in which it is produced or generated based on the use of the results of the analysis of the downlink data and of the uplink data. It is noted that the output of the voice encoder 125 is the result of speech signal already being modified for echo reduction.

Based on the foregoing discussion, it should be clear to the Applicant that Chang is combinable with Dellien et al. to teach or suggest all claimed limitations. The Examiner respectfully suggests the Applicant to amend claim language to clearly define and recite the features argued. At the moment, the Examiner has different interpretation because claim does not clearly convey the feature as argued by the Applicant.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WAYNE CAI whose telephone number is (571)272-7798. The examiner can normally be reached on Monday-Thursday from 8:00 a.m. to 6:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wayne Cai/  
Examiner, Art Unit 2617